

Recent Solar Wind Results Inside 0.3 AU from Radio Propagation Measurements

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Significant gains have recently been made in our knowledge and understanding of the interplanetary manifestation of solar structure and solar dynamic phenomena in the vicinity the Sun. These have been made possible by measurements of electron density, electron density fluctuations and solar wind speed deduced from radio propagation experiments using spacecraft radio signals and natural radio sources.

This paper reviews results covering organization of solar wind structure by the coronal magnetic field, fractional electron density fluctuations, the spatial wavenumber spectrum of electron density fluctuations, the heliospheric current sheet near the Sun and coronal streamers. Special attention is given to relating the results not only to solar observations but also to *in situ* fields and particles observations of the inner heliosphere.